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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.	
09/163,977	09/30/1998 JU-HA PARK		1293.1053	6115	
21171 STAAS & HAI	7590 10/16/200 LSEY LLP	EXAMINER			
SUITE 700		TRAN, TRANG U			
WASHINGTO	RK AVENUE, N.W. N, DC 20005		ART UNIT	PAPER NUMBER	
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Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

Office Action Summary		A	Application No.	pplication No. Applicant(s)				
			09/163,977		PARK, JU-HA			
		E	Examiner		Art Unit			
			「rang U. Tran		2622			
Period fo	The MAILING DATE of this commun or Reply	ication appea	rs on the cover si	heet with the co	orrespondence ac	ldress		
WHIC - Exter after - If NC - Failu Any (ORTENED STATUTORY PERIOD FOR CHEVER IS LONGER, FROM THE MINISTRICT IN THE MINISTRICT	IAILING DAT of 37 CFR 1.136(a nunication. atutory period will a will, by statute, ca	E OF THIS COM a). In no event, however apply and will expire SIX use the application to be	MUNICATION , may a reply be time (6) MONTHS from the come ABANDONED	lely filed he mailing date of this coorsists (35 U.S.C. § 133).			
Status								
1) 又	Responsive to communication(s) file	ed on <i>01 Jul</i> y	2008 and 01 Aug	nust 2008				
•			ction is non-final.	, 4401 2000 .				
3)		<i>'</i> —		al matters, pro	secution as to the	e merits is		
٠,١	Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.							
Dispositi	on of Claims	·	•					
· ·		ending in the	application					
-	Claim(s) <u>3-25,27,37 and 38</u> is/are pending in the application. 4a) Of the above claim(s) is/are withdrawn from consideration.							
	5) Claim(s) is/are allowed. 6) Claim(s) <u>3-25,27,37 and 38</u> is/are rejected.							
· ·	Claim(s) is/are objected to.	gootou.						
•	Claim(s) are subject to restric	tion and/or e	lection requireme	ent				
		nion and/or c	icolon requireme	, iii.				
Applicati	on Papers							
•	The specification is objected to by the							
10)	The drawing(s) filed on is/are:	a)⊡ accept	ted or b)⊡ objec	ted to by the E	xaminer.			
	Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).							
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).								
11)	11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.							
Priority ι	ınder 35 U.S.C. § 119							
 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f). a) All b) Some * c) None of: 1. Certified copies of the priority documents have been received. 2. Certified copies of the priority documents have been received in Application No 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)). * See the attached detailed Office action for a list of the certified copies not received. 								
2) Notic 3) Inform	t(s) e of References Cited (PTO-892) e of Draftsperson's Patent Drawing Review (P nation Disclosure Statement(s) (PTO/SB/08) r No(s)/Mail Date	PTO-948)	Pa 5) No	erview Summary (per No(s)/Mail Da tice of Informal Pa ner:	te			

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DETAILED ACTION

Continued Examination Under 37 CFR 1.114

1. A request for continued examination under 37 CFR 1.114, including the fee set forth in 37 CFR 1.17(e), was filed in this application after final rejection. Since this application is eligible for continued examination under 37 CFR 1.114, and the fee set forth in 37 CFR 1.17(e) has been timely paid, the finality of the previous Office action has been withdrawn pursuant to 37 CFR 1.114. Applicant's submission filed on Aug. 01, 2008 has been entered.

Response to Arguments

2. Applicant's arguments filed July 01, 2008 have been fully considered but they are not persuasive.

In re page 8, applicant argues that column 5, lines 35-38, column 7, line 67 to column 8, line 2 and column 8, lines 11-14 does not teaches the claimed the display is simultaneous with the acquiring.

In response, as discussed in the last Office Action, Mankovitz et al discloses in col. 5, lines 35-38 that "For example, the television guide might be transmitted from 2:00A.M. to 2:30A.M. and then transmitted again between the times of 4:00A.. and 4:30A.M.", from col. 7, line 67 to col. 8 line 2 that "After searching is complete, the controller 750 compiles all received guide identifiers and displays them in a list for viewer to select", and in col. 8, lines 11-14 that "Another embodiment of the invention allows the viewer to tune and display channels from one television signal source while the VCR 740 scans the other television signal sources for guide information". From the

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above passages, the user is able to display the program guide on the receiver during the VCR 740 scans the other television signal source for guide information if he/she wants. It is further noted that the program guide has information of all channels including the channel currently tuned. Thus, it is clear that the user, during the VCR 740 scans the other television sources for the guide information, is able to display the program guide on the television receiver as required by the claims.

Claim Rejections - 35 USC § 103

- 3. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:
 - (a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.
- 4. Claims 3-10, 12-15, 19-23, 27 and 37-38 are rejected under 35 U.S.C. 103(a) as being unpatentable over Cuccia (US Patent No. 6,337,719 B1)in view of Mankovitz et al. (US Patent No. 6,341,195 B1) as set forth in the last Office action.

In considering claim 3, Cuccia discloses all claimed subject matter, note 1) the claimed acquiring program guide information of accessible channels, in response to the program guide command, wherein the program guide information is acquired according to a prioritized or preferential channel search is met by the micro processor 118 (Figs. 1, col. 3, line 55 to col. 4, line 63), 2) the claimed storing the acquired program guide information is met by the digital memory 120 (Fig. 1, col. 3, line 55 to col. 4, line 63), 3) the claimed writing a program list on the basis of the stored program guide information

is met by the digital memory 120 (Fig. 1, col. 3, line 55 to col. 4, line 63), 4) the claimed displaying the written program list to the user in response to the program guide command, simultaneously with the acquiring of the program guide information is met by the television screen 108 and the compound EPG (col. 3, lines 55-64, col. 5, lines 30-65 and col. 7, line 67 to col. 8, line 14).

However, Cuccia explicitly does not disclose the limitations acquiring program guide information of accessible channels including a currently tuned in channel, a preferential channel, and remaining channels, being broadcast.

Mankovitz et al teach the viewer tunes and view television channels from on television signal source while the VCR 740 scans the other television signal sources for guide information (col. 8, lines 10-13). The controller switches the output of a viewer selected signal source, e.g., the cable box 730, to tuner switch output B for direct routing to the television 14, the controller then switches between the outputs of the remaining television signal sources, i.e., antenna 782 and satellite receiver 735 at tuner switch output A. The controller scans through the signals of one signal source output from tuner switch output A and then switches to the other signal source, scanning through the signals of that source also (col. 8, lines 13-22).

Therefore, it would have been obvious to one of ordinary skill in the art at the time of the invention to incorporate automatically checked for EPG information using the second tuner as taught by Mankovitz et al into Cuccia's system in order to provide a method for immediately updating the EPG information about all the channels of the digital TV set based on the latest correct EPG information.

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In considering claim 4, the combination of Cuccia and Mankovitz et al discloses all features of the instant invention as discussed in claim 3 above, except providing the claimed a message indicating that the user must wait until the program list is written. However, the capability of displaying message indicated the user must wait until the program is written is well known and old in the art. It would have been obvious to one of ordinary skill in the art at the time of the invention to provide the combination of Cuccia and Mankovitz et al's system with the well known message in order to increase the efficiency system operation in the combination of Cuccia and Mankovitz et al.

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In considering claim 5, the claimed further comprising determining whether the program guide information is effective by comparing a current time to an effective period of stored program guide information and proceeding to said writing the program list when the stored program guide information is effective, before said acquiring the program guide information is met by the timer 119 or the flow chart of Fig. 2 (Figs. 1 and 2, col. 4, lines 36-55 and col. 5, lines 20-57 of Cuccia).

In considering claim 6, Cuccia discloses all claimed subject matter, note 1) the claimed writing and displaying a program list including the program guide information of channels tuned before a program guide command is executed from the stored program guide information is met by the television screen 108 and the compound EPG (col. 3, lines 55-64 and col. 5, lines 58-65), 2) the claimed acquiring the program guide information for each channel by searching for the accessible channels in a same source

as the viewed channel in a background operation while the program list is referred to is met by the tuner 103 which is free to scan the signals for the EPG information when the TV-set in stand-by mode (Fig. 1, col. 4, line 11 to col. 5, line 19 of Cuccia).

In considering claim 7, the claimed said acquiring the program guide information comprises determining the sequence of accessing channels by proximity of channels to the channel tuned before the program guide command is executed is met by the tuner 103 which is free to scan the signals for the EPG information when the TV-set in stand\by mode and the compound EPG (Fig. 1, col. 4, line 11 to col. 5, line 19 and col. 5, lines 58-65 of Cuccia).

In considering claim 8, the claimed said acquiring the program guide information comprises determining the order of priority of channels having the same proximity to the channel tuned before the program guide command is executed according to a channel up/down command input before corresponding channels are accessed is met by the remote control unit 110 and the compound EPG (Fig. 1, col. 5, lines 1-65 of Cuccia).

In considering claim 9, the claimed wherein an upward or downward direction is preferential when no channel up/down command is executed is met by the tuner 103 which is free to scan the signals for the EPG information when the TV-set in stand-by mode and the compound EPG (Fig. 1, col. 4, line 11 to col. 5, line 19 and col. 5, lines 58-65 of Cuccia).

In considering claim 10, the claimed said acquiring the program guide information comprises searching channels upward or downward from the channel tuned before the program guide command is executed is met by the tuner 103 which is free to scan the

signals for the EPG information when the TV-set in stand-by mode and the compound EPG (Fig. 1, col. 4, line 11 to col. 5, line 19 and col. 5, lines 58-65 of Cuccia).

Claim 12 is rejected for the same reason as discussed in claims 3 and 6 and further 1) the claimed a program guiding method, for use with a tuner is met by the tuner 103 which is free to scan the signals for the EPG information when the TV-set in standby mode (Fig. 1, col. 4, line 11 to col. 5, line 19 of Cuccia) or the tuner of VCR 740 scans the other television signal sources for guide information (col. 8, lines 10-13 of Mankovitz et al), 2) the claimed rewriting a program list on the basis of the stored program guide information is met by the TV-set updates the EPG information (Fig. 1, col. 4, line 11 to col. 5, line 19 and col. 5, lines 58-65 of Cuccia), and 3) the claimed displaying the rewritten program list to a user is met by the television screen 108 and the compound EPG (col. 3, lines 55-64 and col. 5, lines 58-65 of Cuccia).

Claims 13-16 are rejected for the same reason as discussed in claims 7-10, respectively.

In considering claim 19, Cuccia discloses all claimed subject matter, note 1) the claimed the apparatus being for use with a tuner tuning a currently tuned in channel to be displayed is met by the tuner 103 which is free to scan the signals for the EPG information when the TV-set in stand\- by mode (Fig. 1, col. 4, line 11 to col. 5, line 19), 2) the claimed a program guide information detector detecting program guide information for the currently tuned in channel introduced via said tuner is met by the micro processor 118 (Fig. 1, col. 3, line 55 to col. 4, line 63), 3) the claimed a memory storing the program guide information for each channel detected by said program guide

information detector is met by the digital memory 120 (Fig. 1, col. 3, line 55 to col. 4, line 63), 4) the claimed a key input introducing a user manipulation command such as a program guide command or a channel search command is met by the remote control unit 110 and the compound EPG (Fig. 1, col. 5, lines 1-65), 5) the claimed a microprocessor, in response to the manipulation command input via said key input, that writes a program list based on program guide information stored in said memory and searches for accessible channels by controlling said tuner in a background operation while a user refers to the program list is met by the micro processor 118 (Fig. 1, col. 3, line 55 to col. 5, line 19), 6) the claimed a character signal generator generating a character signal corresponding to the program list written by said microprocessor and providing the character signal to a screen is met by the television screen 108 and the compound EPG (col. 3, lines 55-64 and col. 5, lines 58-65), and 7) the claimed a display to display the program list simultaneously with the detecting of the program guide information is met by the television screen 108 and the compound EPG (col. 3, lines 55-64, col. 5, lines 30-65 and col. 7, line 67 to col. 8, line 14).

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However, Cuccia explicitly does not disclose the claimed a microprocessor searches for remaining accessible channels to obtain program guide information being broadcast for the remaining accessible channels by controlling said tuner in a background operation while a user refers to the program list.

Mankovitz et al teach the viewer tunes and view television channels from on television signal source while the VCR 740 scans the other television signal sources for guide information (col. 8, lines 10-13). The controller switches the output of a viewer

selected signal source, e.g., the cable box 730, to tuner switch output B for direct routing to the television 14, the controller then switches between the outputs of the remaining television signal sources, i.e., antenna 782 and satellite receiver 735 at tuner switch output A. The controller scans through the signals of one signal source output from tuner switch output A and then switches to the other signal source, scanning through the signals of that source also (col. 8, lines 13-22).

Therefore, it would have been obvious to one of ordinary skill in the art at the time of the invention to incorporate automatically checked for EPG information using the second tuner as taught by Mankovitz et al into Cuccia's system in order to provide a method for immediately updating the EPG information about all the channels of the digital TV set based on the latest correct EPG information.

Claims 20-23 are rejected for the same reason as discussed in claims 7-10, respectively.

In considering claim 27, the claimed wherein said acquiring the program guide information comprises the step of determining the sequence of accessing channels by proximity of the channels to the channel tuned and by a channel up/down command input just before a channel search is determined is met by the tuner 103 which is free to scan the signals for the EPG information when the TV-set in stand-by mode and the compound EPG (Fig. 1, col. 4, line 11 to col. 5, line 19 and col. 5, lines 58-65 of Cuccia).

In considering claim 37, the claimed wherein the program guide information is shown on the screen while the program guide information is acquired by the

multichannel receiver is met by the on-screen guides disclosed in col. 7, lines 54-62 and scanning the television sources for guide information while viewer tunes and displays channels from other television signal source disclosed in col. 8, lines 11-28 of Mankovitz et al.

Claim 38 is rejected for the same reason as discussed in claim 12.

5. Claims 11, 16-17, and 24 are rejected under 35 U.S.C. 103(a) as being unpatentable over Cuccia (US Patent No. 6,337,719 B1) in view of Mankovitz et al (US Patent No. 6,341,195 B1) and further in view of Saitoh (US Patent 5,444,499) as set forth in the last Office action.

In considering claim 11, the combination of Cuccia and Mankovitz et al discloses all the features of the instant invention except for providing further comprising writing a probability distribution of tuned channels, wherein said acquiring the program guide information comprises searching the channels in an order of priority according to a probability distribution of channels. Saitoh teaches that the controller can calculates a probability that channels are to be selected, by accumulating a number of time which the channels are tuned (col. 5, lines 46-62) and searches for the channels in an order of priority according to a probability of tuning by the channels calculated (col. 6, lines 15-38). It would have been obvious to one of ordinary skill in the art at the time of the invention to provide the combination of Cuccia and Mankovitz et al's system with the controller as taught in Saitoh in order to obtain the television guide without carrying out cumbersome tuning operations.

In consider claim 16, the claimed wherein said acquiring the guide information comprises searching channels upward or downward from the channel tuned before the program guide command is executed is met by the tuner 103 which is free to scan the signals for the EPG information when the TV-set in stand-by mode and the compound EPG (Fig. 1, col. 4, line 11 to col. 5, line 19 and col. 5, lines 58-65 of Cuccia).

In consider claim 17, the claimed further comprising writing a probability distribution of tuned channels, and wherein the channels are search for in order of priority according to the probability distribution of channels is met by the search of channels base on the priority disclosed in Saitoh, column 6, lines 15-38.

Claim 24 is rejected for the same reason as discussed in claim 11.

6. Claims 18, and 25 are rejected under 35 U.S.C. 103(a) as being unpatentable over Cuccia (US Patent No. 6,337,719 B1) in view of Mankovitz et al (US Patent No. 6,341,195 B1), and further in view of Mugura et al. (US Patent No. 6,243,142 B1) as set forth in the last Office action.

In consider claim 18, the combination of Cuccia and Mankovitz et al discloses all the limitations of the instant invention as discussed in claims 3 and 12 above, except for providing the claimed wherein said displaying the written program list comprises displaying a message indicating a status of program guide information in response to the program guide information of a corresponding channel not being stored. Mugura et al teach that the broadcast system generates at least one graphic image to indicate a status of these programs, the status including whether a user has selected pay-per-view broadcasts for purchase. The status also includes whether a broadcast system timer

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has been set to tune to a particular channel program at a designed time, whether a channel program has been set for recording, etc. (col. 2, lines 20-40). Therefore, it would have been obvious to one of ordinary skill in the art at the time of the invention to incorporate the graphic image to indicate a status of programs as taught by Mugura et al into the combination of Cuccia and Mankovitz et al's system in order to provide channel selection guides with many options regarding programs that are available for broadcast.

Claim 25 is rejected for the same reason as discussed in claim 18.

7. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Trang U. Tran whose telephone number is (571) 272-7358. The examiner can normally be reached on 9:00 AM - 6:30 PM, Monday to Friday.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Sinh N. Tran can be reached on (571) 272-7564. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

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Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

October 14, 2008

/Trang U. Tran/ Primary Examiner, Art Unit 2622